

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

CLASSIFICATION ORDER 1849

August 2, 2005

Project No. MT010

The following classification changes will be effected by this order:

	<u>Class</u>	<u>Subclass</u>	<u>Art Unit</u>	<u>Ex'r Search Room No.</u>
Established:	903 (New)	CROSS-REFERENCE ART COLLECTION(S): 902-927, 930, 940-948, 951, 952, 960	3618	KNX 00-C75

No other classes are impacted by this order.

This order includes the following:

- A. CLASSIFICATION MANUAL CHANGES
- C. CHANGES TO THE U.S. – I.P.C. CONCORDANCE
- D. DEFINITION CHANGES

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AUGUST 2005

- * *****
- * CROSS-REFERENCE ART COLLECTIONS
- * *****
- * 902 PRIME MOVERS COMPRISING ELECTRICAL AND INTERNAL COMBUSTION MOTORS (EPO/JPO) * 951 ..Assembly or relative location of components (EPO/JPO)
- * 903 ..Having energy storing means (e.g., battery, capacitor) (EPO/JPO) * 952 ..Housing details (EPO/JPO)
- * 904 ..Component specially adapted for HEV (EPO/JPO) * 960 ..Having chargeable mechanical accumulator (EPO/JPO)
- * 905 ...Combustion engine (EPO/JPO)
- * 906 ...Motor or generator (EPO/JPO)
- * 907 ...Electricity storage (e.g., battery, capacitor) (EPO/JPO)
- * 908 ...Fuel cell (EPO/JPO)
- * 909 ...Gearing (EPO/JPO)
- * 910Orbital (e.g., planetary gears) (EPO/JPO)
- * 911With two or more gear sets (EPO/JPO)
- * 912 ...Drive line clutch (EPO/JPO)
- * 913One way (EPO/JPO)
- * 914Actuated (e.g., engaged or disengaged by electrical, hydraulic or mechanical means) (EPO/JPO)
- * 915 ...Specific drive or transmission adapted for HEV (EPO/JPO)
- * 916With plurality of drive axles (EPO/JPO)
- * 917With transmission for changing gear ratio (EPO/JPO)
- * 918Continuously variable (EPO/JPO)
- * 919Stepped shift (EPO/JPO)
- * 920 ..Specific vehicle topology (EPO/JPO)
- * 921 ...Series and parallel (EPO/JPO)
- * 922Switching type (e.g., selectively switchable) (EPO/JPO)
- * 923Differential gearing distributing type (EPO/JPO)
- * 924Electrical distributing type (e.g., using motor having rotating rotor and stator) (EPO/JPO)
- * 925 ...Series (EPO/JPO)
- * 926 ...Parallel (EPO/JPO)
- * 927Motor assist (EPO/JPO)
- * 930 ..Conjoint control of different elements (EPO/JPO)
- * 940 ..Characterized by control of specific element adapted for HEV (EPO/JPO)
- * 941 ...Control of combustion engine (EPO/JPO)
- * 942 ...Control of motor or generator (EPO/JPO)
- * 943 ...Control of electrical storage means (e.g., battery) (EPO/JPO)
- * 944 ...Control of fuel cell (EPO/JPO)
- * 945 ...Control of gearing (e.g., control of transmission ratio) (EPO/JPO)
- * 946 ...Control of driveline clutch (EPO/JPO)
- * 947 ...Control of braking (e.g., blending of regeneration, friction braking) (EPO/JPO)
- * 948 ...Control of equipment outside vehicle drive train (e.g., fuel pump, air conditioner, oil pump) (EPO/JPO)

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C-1

CLASSIFICATION ORDER 1836

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C. CHANGES TO THE U.S. - I.P.C. CONCORDANCE

<u>U.S.</u> <u>Class</u>	<u>Subclass</u>	<u>I.P.C.</u> <u>Subclass</u>	<u>Notation</u>
903	902	B60K	6/00
		B60K	6/02
	903	B60K	6/04
	904	B60K	6/04
	905	B60K	6/04
	906	B60K	6/04
	907	B60K	6/04
	908	B60K	6/04
	909	B60K	6/04
	910	B60K	6/04
	911	B60K	6/04
	912	B60K	6/04
	913	B60K	6/04
	914	B60K	6/04
	915	B60K	6/04
	916	B60K	6/04
	917	B60K	6/04
	918	B60K	6/04
	919	B60K	6/04
	920	B60K	6/04
	921	B60K	6/04
	922	B60K	6/04
	923	B60K	6/04
	924	B60K	6/04
	925	B60K	6/04

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<u>U.S.</u> <u>Class</u>	<u>Subclass</u>	<u>I.P.C.</u> <u>Subclass</u>	<u>Notation</u>
903	926	B60K	6/04
	927	B60K	6/04
	930	B60K	6/04
	940	B60K	6/04
	941	B60K	6/04
	942	B60K	6/04
	943	B60K	6/04
	944	B60K	6/04
	945	B60K	6/04
	946	B60K	6/04
	947	B60K	6/04
	948	B60K	6/04
	951	B60K	6/04
	952	B60K	6/04
	960	B60K	6/06

CLASS 903 – HYBRID ELECTRIC VEHICLES (HEVs)

Class Definition:

This class includes arrangement or mounting of plural prime movers for mutual or common propulsion of a vehicle; this class includes specific HEV topologies, components and arrangements of components specially adapted for HEVs, as well as controls of components specially adapted for HEVs.

This class was initially established as a result of a joint reclassification project of HEV technology completed by the Japanese Patent Office (JPO) and the European Patent Office (EPO). At the time of introduction, all US documents in these subclasses were either classified directly by the EPO or JPO, or through family member processing of classified documents. The subclasses also contain foreign documents classified directly by these countries. The US patents are updated with classifications assigned by US examiners. Foreign patents are updated on a regular basis from the EPO and JPO databases.

Cross-Reference Art Collection(s)

- 902 PRIME MOVERS COMPRISING ELECTRICAL AND INTERNAL COMBUSTION MOTORS (EPO/JPO):**
Subject matter under cross-reference art collection definition wherein one prime mover comprises a motor that converts electrical energy to mechanical work and a second prime mover that comprises a chamber wherein combustible material is burned and the heat energy thus developed is converted into work.
- 903 Having energy storing means (e.g., battery, capacitor) (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04 and FI classification B60K 6/04.
- 904 Component specially adapted for HEV (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B, and FI classification B60K 6/04,100.
- 905 Combustion engine (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B2 and FI classification B60K 6/04,110.
- 906 Motor or generator (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B4 and FI classification B60K 6/04, 120.
- 907 Electricity storage (e.g., battery, capacitor) (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B6 and FI classification B60K 6/04,130.
- 908 Fuel cell (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B8 and FI classification B60K 6/04, 140.
- 909 Gearing (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B10 and FI classification B60K 6/04,150.

- 910 Orbital (e.g., planetary gears) (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B10B and FI classification B60K 6/04, 151.
- 911 With two or more gear sets (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B10B and FI classification B60K 6/04, 151.
- 912 Drive line clutch (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B12 and FI classification B60K 6/04, 160.
- 913 One way (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B12B and FI classification B60K 6/04, 161
- 914 Actuated (e.g., engaged or disengaged by electrical, hydraulic or mechanical means) (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B12D and FI classification B60K 6/04, 163.
- 915 Specific drive or transmission adapted for HEV (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04T and FI classification B60K 6/04, 700.
- 916 With plurality of drive axles (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04T2 and FI classification B60K 6/04, 710.
- 917 With transmission for changing gear ratio (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04T4 and FI classification B60K 6/04, 730.
- 918 Continuously variable (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04T4C and FI classification B60K 6/04, 731.
- 919 Stepped shift (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04T4S and FI classification B60K 6/04, 733.
- 920 Specific vehicle topology (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04H and FI classification B60K 6/04, 500.
- 921 Series and parallel (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04H6 and FI classification B60K 6/04, 550.
- 922 Switching type (e.g., selectively switchable) (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04H6C and FI classification B60K 6/04, 551.

- 923 Differential gearing distributing type (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04H6D and FI classification B60K 6/04, 553.
- 924 Electrical distributing type (e.g., using motor having rotating rotor and stator) (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04H6E and FI classification B60K 6/04, 555.
- 925 Series (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04H2 and FI classification B60K 6/04, 510.
- 926 Parallel (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04H4 and FI classification B60K 6/04, 530.
- 927 Motor assist (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04H4B and FI classification B60K 6/04, 531.
- 930 Conjoint control of different elements (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04F and FI classification B60K 6/04, 400.
- 940 Characterized by control of specific element adapted for HEV (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04D and FI classification B60K 6/04, 300.
- 941 Control of combustion engine (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04D2 and FI classification B60K 6/04, 310.
- 942 Control of motor or generator (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04D4 and FI classification B60K 6/04, 320.
- 943 Control of electrical storage means (e.g., battery) (EPO/JPO)**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04D6 and FI classification B60K 6/04, 330.
- 944 Control of fuel cell (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04D8 and FI classification B60K 6/04, 340.
- 945 Control of gearing (e.g., control of transmission ratio) (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04D10 and FI classification B60K 6/04, 350.
- 946 Control of driveline clutch (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04D12 and FI classification B60K 6/04, 360.
- 947 Control of braking (e.g., blending of regeneration, friction braking) (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04D14 and FI classification B60K 6/04, 370.

- 948 Control of equipment outside vehicle drive train (e.g., fuel pump, air conditioner, oil pump) (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04D16 and FI classification B60K 6/04, 380.
- 951 Assembly or relative location of components (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B14 and FI classification B60K 6/04, 170.
- 952 Housing details (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/04B14B and FI classification B60K 6/04, 171.
- 960 Having chargeable mechanical accumulator (EPO/JPO):**
Subject matter under cross-reference art collection 902 is substantially the same in scope as ECLA classification B60K6/06 and FI classification B60K 6/06.